



# Arboricultural Method Statement BS5837:2012

16 Lyndhurst Gardens, London, NW3 5NR

Apex Environmental Ltd

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## Contact details

Client	Address	16 Lyndhurst Gardens, London, NW3 5NR
	Name	
	Contact	O Goldberg
Architect	Company	KSR Architects LLP
	Address	14 Greenland Street, London, NW1 0ND
	Contact	O Conti
	Email	

Report History					
Version	Date	Author	Checked by	Reason	Status
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## Instructions

- 1.1 This report has been prepared to discharge the instruction of the client, Mr Goldberg 'The Client' in respect of detailed planning permission at 16 Lyndhurst Gardens, London, NW3 5NR
- 1.2 The Client, has commissioned a Method Statement for the tree at the site to discharge the LPA conditions.
- 1.3 The site survey was carried out on the 12<sup>th</sup> December 2021. The relevant qualitative and quantitative tree data and information was recorded to assess the condition of the trees, their constraints upon the proposed development and a summary on any proposed protection and construction specification required.
- 1.4 **Qualifications and experience:** I have based this report on my site observations and the provided information, and I have come to conclusions in the light of my experience. I have experience and qualifications in arboriculture, and include a summary in Appendix V



## Caveat

This advice and all appendices are subject to caveat as follows:

- 2.1 This report is nullified if any remedial works are undertaken on any area of the site, on or after the date of study/survey.
- 2.2 The report is only valid on the date on inspection and any deletion, editing or alteration will void it in its entirety.
- 2.3 The responsibility for any works undertaken on the basis of the recommendations of this report does not form part of this contract. No responsibility is assumed by the Author of this report or by Reuben Hayes for any legal matters that may arise as a consequence.
- 2.4 The Author of the report, will be required to attend court or give testimony as part of this contract. The report is not valid in adverse or unpredictable weather conditions or for any failure due to *Force Majeure*.
- 2.5 No liability is assumed by the Author of the report for any misuse, misinterpretation or misrepresentation of information contained herein.
- 2.6 This report has been compiled using only the information made available to the Author as at the above date of inspection.
- 2.7 The assessment, unless described as “detailed” was of a preliminary nature, conducted from ground only; the tree was not climbed or inspected below ground level (inc. roots). There was no use of decay detection equipment, and only basic surveying instruments were used.
- 2.8 The Author did not have at the time of writing any information as to the integrity of the main structure, its annexes or the drainage system.
- 2.9 Water supply/drainage systems, if damaged, can allow roots to penetrate, however, if the system is sound, or after repair, roots have little capacity to access/damage underground services.
- 2.10 Any doubt as to the structural condition of properties would require the advice of a structural engineer.
- 2.11 Apex Environmental Ltd are not responsible for any works other than those invoiced for.
- 2.12 The observations are visual in nature and are made from ground level only, no climbing inspections have been carried out nor was there the use of binoculars.

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## Documents Supplied

AEL-18129-AIA-C – Arboricultural Impact Assessment  
AEL-18129-TCP-A – Tree Constraints Plan  
AEL-18129-TCNLP-B – Tree Constraints New Layout Plan  
AEL-18129-TIP-B – Tree Impact Plan  
AEL-18129-TPP-B – Tree Protection Plan

## Arboricultural Method Statement

### 4.1 Key Personnel

The project is external alterations to front boundary and garden area, including the replacement of iron entrance gate, addition of iron railings to boundary wall, new planters, installation of new bin storage units, and rearrangement and alteration to hard landscaping areas (following removal of 2 brick storage units) and installation of bike storage area. There will be minimal presence on site and most work will be completed by a maximum of 5 personnel. This will include a project manager, site manager/foreman, workers and additional persons offloading materials. All personnel on site must report the site manager.

Before any works take place, a meeting and discussion on the care of trees must be given from the arboricultural consultant to all workers on site. To explain the importance of the trees and how to always work around the trees.

### 4.2 Accidents and emergencies involving trees

Any accidents caused to the trees on the site or any emergencies of spill of liquids or chemicals on site MUST be reported by the site manager within 2hrs to the lead arboricultural consultant. Following the discussion, a plan of action will be produced directly from the arboricultural consultant and this may involve a non-routine site visits and follow up visits to make the site safe. All accidents are to be reported on including any treatments such as soil removal, root pruning, de-compaction of soils. This report must be sent to the site manager, project manager and the LPA within 5 working days.

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## 4.3 Phasing of onsite works

The phasing of the works will take place as follows:

- a. Pre-Contract Meeting
- b. Tree Works
- c. Installation of special tree protection (AEL-18477-TPP-A)
- d. Installation of temporary ground protection around trees
- e. Sitting of storage of materials
- f. Demolition of existing structures
- g. Excavations near RPA of trees
- h. Construction in proximity to existing trees
- i. Undertake and complete works
- j. Remove tree protection and ground protection
- k. Undertake external landscaping works within the tree protection area
- l. Sign off from the construction company and Arboricultural consultant as no further involvement is required

## 4.4 Tree Works

For reasons of safety, all tree works referred to below must be carried out prior to any site personnel being engaged to work on the land, or any building materials being delivered.

Summary of tree works

Tree No.	Species	Works required	Category	Cyclical
H.1	Privet	Lift by hand to retail roots and heel into new soil away from main development area		
H.2	Privet	Lift by hand to retail roots and heel into new soil away from main development area		

Notes



All tree works is to be undertaken in accordance with British Standards BS3998:2010 – Tree Works – Recommendations. All arising's are to be removed from site and the site to be left as found. Care is to be taken to the ground around the retained tree and hedge to ensure that it does not become compacted because of tree surgery operations. No equipment or vehicles shall be parked or driven beneath the crowns of any retained trees, to prevent subsequent compaction and root death.

Apex Environmental Ltd can source, tender and oversee the necessary tree works if required by the client.

In any case, there will be a requirement for the lead Arboricultural consultant to assess the works to ensure they have been carried out to specification and in line with BS3998:2010.

#### 4.5 Installation of special tree protection (AEL-18477-TPP-B)

To protect the Beech T1 it must follow a special tree protection design due to the works within the RPA of the tree.

This must be constructed from hessian wrapping under strict supervision of the Arboricultural Consultant. The hessian wrap must be of at least 4 wraps thick and rising to 2m on the stem of the tree to give some protection from hand tools on site. This must then have a wooden box frame to the outside 50mm larger than the base of the tree. This is to have upright supports to 2m with a second box. The outer side is to be formed of plywood and Tree Protection Notices attached. This wooden protection will give the maximum possible protection during the works.

#### 4.6 Installation of ground protection

To protect the soils and the roots of T.1, the ground area must be protected. This must be of a geotextile membrane laid directly over the ground (no ground works or soil removal will be permitted). A layer of woodchip can then be placed on top to a depth of 50mm (to take out lumps and bumps). Plywood boarding can then be placed on top to act as a protection layer when access is needed to the boundary wall section.

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## 4.7 Siting of Storage and Welfare

The storage area and welfare has been identified as being within the hard standing to the front. It is also possible to suspend the parking bays to the front to allow for the setting down of materials. The storage area will also include an area for the mixing of materials which must be contained within a spill containment tray of at least 1000mmx1000mmx120mm. No mixing of materials must take place outside of the containment tray. All mixing and storage of chemicals, petrol or cement must be confined to the furthest area away from T.1.

## 4.8 Undertake and complete works

Once the above tree protection measures have taken place then the main landscaping must take place. This will be to remove the steps and replace with new stones. The first slabs close to the tree are to be lifted by hand and under the supervision of the Arboricultural Consultant. Any roots within the floor area will be documented and a separate method of lifting of the old floor and replacing with a new floor will be drawn up and documented. This will be emailed to the Arboricultural Officer within 72hours.

Once the new flooring is complete, the new bike storage area can then be installed. This will require the demolition of the existing building which will be done by hand due to confined area and light weight structure. Once removed the wall can be skinned and final finish completed. The bike storage is to be designed and constructed by hand and then placed into the final location. This is a free-standing structure and will not require supervision.

## 4.9 Remove tree protection fencing

Once all works have been completed and all materials and machinery have been removed from site. The Arboricultural Consultant must be informed and will invite the LPA Arboricultural Officer to meet on site to discuss the process and any final remedial works that may be required.

#### 4.10 Undertake external landscaping works within the tree protection fencing area

The final phase of works can now be carried out to include any landscaping requirements within the Root Protection Area.

#### 4.11 Sign off from the construction company and Arboricultural consultant as no further involvement is required

The final meeting is required to formally sign off that all works have now been completed and that no further action is required. This will include a Visual Tree Inspection and report on any remedial actions (if necessary). Once this has been completed this will be submitted to the LPA Arboricultural Officer.

#### 4.12 Monitoring of the development site

The development's tree protection fencing is to be monitored by the Arboricultural Consultant who must be retained to record and report observations to the LPA Arboricultural Officer within 5 working days of the site visit.

Prior to the commencement of any works on site, a pre-start meeting is to be held to discuss the protection methodology, arboricultural method statement and swap contact details. A tool box talk with the key workers must also take place to ensure people on site are aware of trees and the tree roots.

Thereafter supervision and monitoring visits will be undertaken for the duration of the works, to ensure that tree protection measures are in place and are functioning as designed. A record of these visits must be kept and any faults will be logged and mitigation and amelioration advised and actioned. This will also be duplicated and handed to the site agent, developer and LPA within 5 working days of the site visit.

Regular contact will be maintained with the site manager to determine any forthcoming operations that may make an impact on the tree protection measures and then any arboricultural supervision is required.

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The Arboricultural Consultant will be advised a minimum of 72 hours prior to the commencement of any works that require their supervision, and in any case will visit at no less than weekly intervals to monitor and supervise works. Key visits for supervision are:

- installation of fencing and ground protection and storage area
- initial build
- completion of development and removal of fencing.

### Details of Arboricultural Consultant:

- I. Name: Reuben Hayes
- II. Company: Apex Environmental Ltd
- III. Address: 3 Lawrence Way, Lichfield, WS13 6RD
- IV. Office number: 0121 249 1235
- V. Mobile: 07968 442929
- VI. Email: reuben@ael-treeconsultants.co.uk

This concludes the report, if I can be of further assistance please do not hesitate to contact.

Signature:  Date: 26<sup>th</sup> April 2022

Managing Director for and on behalf of Apex Environmental Limited

**Reuben Hayes M.Arbor.A; CMgr MCM1**  
**Apex Environmental Ltd**

## Arboricultural terms

- 5.1 An “arboriculturist” is a person who has, through relevant education, training and experience, gained recognized qualifications and expertise in the field of trees in relation to construction.
- 5.2 A “Competent person” is someone who has had training and experience relevant to the matter being addressed and an understanding of the requirements of the particular task being approached. A competent person is expected to be able to advise on the best means by which the recommendations of the BS 5837: 2012 may be implemented.
- 5.3 A “tree survey” in the context of planning and development is taken to mean an assessment of the tree stock on site (or within area shown where appropriate), as individuals or groups. **(This is undertaken independent of and prior to any knowledge of a scheme being produced.)** Management recommendations in the tree survey schedule reflect the structural and physiological condition of the trees only. It is essential that the trees are assessed objectively and without reference to site layout proposals.
- 5.4 The “Construction” is a site-based operation with the potential to affect existing trees.
- 5.5 A “root protection area”, or RPA, is a layout design tool indicating the minimum area around a tree deemed to contain sufficient roots and rooting volume to maintain the tree’s viability, and where the protection of the roots and soil structure is treated as a priority. The RPA area is worked out on a mathematical basis and listed in appendix III
- 5.6 “Construction Exclusion Zone” (CEZ) is based upon the RPA above and forms the exclusion zone to which access is prohibited during the project phase.
- 5.7 A “tree constraints plan”, or TCP, is a scaled plan prepared by an arboriculturist showing the RPA and the accurate canopy spread of a tree, along with information to identify the tree by reference to a survey schedule, this will identify any under and above ground constraints. Author to produce this in AutoCAD.

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- 5.8 An “arboricultural impact assessment”, or AIA, is a study or report undertaken by the project arboriculturist to include detailed information to evaluate the direct and indirect effects of the proposed design against the tree(s). As well as the potential future maintenance of the tree(s) against the proposed development, and where necessary recommends mitigation. The assessment should take account of the effects of any tree loss required to implement the design, and any potentially damaging activities proposed in the vicinity of retained trees.
- 5.9 An “arboricultural method statement”, or AMS, is a methodology for the implementation of any aspect of development that has the potential to result in loss of or damage to a tree. NOTE The AMS is likely to include details of an on-site tree protection monitoring regime
- 5.10 A “tree protection plan”, or TPP, is a scale plan and should be superimposed on a layout plan, based on the topographical survey, showing all hard surfacing and other existing structures within the RPA. The plan should clearly indicate the precise location of protective barriers to be erected to form a construction exclusion zone around the retained trees.
- 5.11 Other plans and documents may be referred to and annexed where appropriate.
- 5.12 Access facilitation pruning is a one-off tree pruning operation, the nature and effects of which are without significant adverse impact on the tree(s) physiology or amenity value, which is directly necessary to provide access for operation on site.
- 5.13 Services are any above- or below- ground structure or apparatus required for utility provision. Examples include drainage, gas supplies, ground source heat pumps, CCTV and satellite communications.
- 5.14 Stem is the principal above-ground structural component(s) of a tree that supports its branches.
- 5.15 Structures are manufactured objects, such as a building, carriageway, path, wall, service run and built or excavated earthworks.

- 5.16 A 'Veteran tree' is recognized by a set criteria as set by British Standards 2998; 2010, Tree Work – Recommendations. This must show signs of biological, cultural or aesthetic value that are characteristic of, but not limited to, individuals surviving beyond the typical age range for the species concerned.

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## Appendix I – Tree Protection Notice





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## **Arboricultural Method Statement BS5837:2012**

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### **Appendix II – About the author**

#### **Mr Reuben Hayes M.Arbor.A, CMgr MCMI**

##### ***Qualifications***

National Diploma (Tree Management and Arboriculture) (ND) (2000) –  
Warwickshire College

Higher National Diploma, Arboriculture (HND), July 2003 – Warwickshire  
College

CMI Management and Leadership (Level 5) – May 2015

##### ***Continued Professional Development***

Professional Tree Inspection (PTI), July 2009 – Lantra Award

BS5837 – Trees in relation to Construction 2012 (refresher course) 2015

Mortgage report writing (refresher course) 2015

##### ***Membership of industry bodies***

Professional Member of the Arboricultural Association - M.Arbor.A

Professional Member of Consulting Arborist Society (CAS)

Associate member of the Institute of Chartered Foresters

Chartered Management Institute – CMgr MCMI

Institute of Directors – (IoD)

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